

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=2; day=25; hr=12; min=23; sec=35; ms=510;]

=====

Application No: 10622869 Version No: 4.0

Input Set:**Output Set:**

Started: 2009-02-09 20:39:05.773
Finished: 2009-02-09 20:39:09.990
Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 217 ms
Total Warnings: 66
Total Errors: 0
No. of SeqIDs Defined: 414
Actual SeqID Count: 414

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26)
W 213	Artificial or Unknown found in <213> in SEQ ID (27)
W 213	Artificial or Unknown found in <213> in SEQ ID (28)
W 213	Artificial or Unknown found in <213> in SEQ ID (29)
W 213	Artificial or Unknown found in <213> in SEQ ID (30)
W 213	Artificial or Unknown found in <213> in SEQ ID (31)
W 213	Artificial or Unknown found in <213> in SEQ ID (32)
W 213	Artificial or Unknown found in <213> in SEQ ID (33)
W 213	Artificial or Unknown found in <213> in SEQ ID (34)
W 213	Artificial or Unknown found in <213> in SEQ ID (35)
W 213	Artificial or Unknown found in <213> in SEQ ID (36)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
W 213	Artificial or Unknown found in <213> in SEQ ID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)

Input Set:

Output Set:

Started: 2009-02-09 20:39:05.773
Finished: 2009-02-09 20:39:09.990
Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 217 ms
Total Warnings: 66
Total Errors: 0
No. of SeqIDs Defined: 414
Actual SeqID Count: 414

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (40) This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> TIKOO, Suresh K.

<120> PAV REGIONS FOR ENCAPSIDATION AND E1
TRANSCRIPTIONAL CONTROL

<130> 293102003600

<140> 10622869

<141> 2003-07-18

<150> US 60/397,251

<151> 2002-07-19

<150> US 60/460,798

<151> 2003-04-04

<160> 414

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 16

<212> DNA

<213> Porcine Adenovirus 3

<400> 1

cggaaattcc cgcaca 16

<210> 2

<211> 18

<212> DNA

<213> Porcine Adenovirus 3

<400> 2

ggcggaaatt cccgcaca 18

<210> 3

<211> 17

<212> DNA

<213> Porcine Adenovirus 3

<400> 3

gggattttgt gccctct 17

<210> 4

<211> 19

<212> DNA

<213> Porcine Adenovirus 3

<400> 4

gcgggatttt gtgccctct 19

<210> 5

<211> 16	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 5	
cggtattccc cacctg	16
<210> 6	
<211> 18	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 6	
cccgggtattc cccacctg	18
<210> 7	
<211> 18	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 7	
gtgtattttt tcccctca	18
<210> 8	
<211> 20	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 8	
gggtgtattt tttcccctca	20
<210> 9	
<211> 17	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 9	
gtgtatatag tccgcgc	17
<210> 10	
<211> 19	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 10	
cagtgtatat agtccgcgc	19
<210> 11	
<211> 16	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 11	
gagttttctc tcagcg	16
<210> 12	
<211> 18	

<212> DNA	
<213> Porcine Adenovirus 3	
<400> 12	
tagagttttc tctcagcg	18
<210> 13	
<211> 14	
<212> DNA	
<213> Porcine Adenovirus 5	
<400> 13	
ctggtatttt ccac	14
<210> 14	
<211> 10	
<212> DNA	
<213> Porcine Adenovirus 5	
<400> 14	
gtgatattgg	10
<210> 15	
<211> 12	
<212> DNA	
<213> Porcine Adenovirus 5	
<400> 15	
cctttacctg gg	12
<210> 16	
<211> 14	
<212> DNA	
<213> Porcine Adenovirus 5	
<400> 16	
ctcaatttta ccac	14
<210> 17	
<211> 15	
<212> DNA	
<213> Porcine Adenovirus 5	
<400> 17	
ggtcgatttt tcac	15
<210> 18	
<211> 17	
<212> DNA	
<213> Porcine Adenovirus 5	
<400> 18	
cctatttatt ctgcgcg	17
<210> 19	
<211> 14	
<212> DNA	

<213> Homo Sapien Adenovirus 5

<220>

<221> misc_feature

<222> (5)...(12)

<223> n = A,T,C or G

<400> 19

tttgnnnnnn nncg 14

<210> 20

<211> 18

<212> DNA

<213> Porcine Adenovirus 5

<400> 20

ccctatttat tctgcgcg 18

<210> 21

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 21

cgtcttcaag gatacctta 18

<210> 22

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 22

cgcgctgata tctctctc 18

<210> 23

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 23

ccgcaattgg tcatacacag tcattttc 28

<210> 24

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer	
<400> 24	
ccgcaattgg gggcggggcc gagcggc	27
<210> 25	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 25	
ccgcaattgg cggaggaccg ccccagg	27
<210> 26	
<211> 26	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 26	
ccgcaattga taccgcggga ttttgt	26
<210> 27	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 27	
ccgcaattgc tccacctgtg cgggaat	27
<210> 28	
<211> 25	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 28	
ccgcaattgc accacacgtc cgcgg	25
<210> 29	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	

<400> 29	
ccgcaattgc ggaagtgcc caccgga	27
<210> 30	
<211> 28	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 30	
ccgcaattgt cgcgctgaga ggtccgcg	28
<210> 31	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 31	
ccgcaattga ggacaccccg ctcaggt	27
<210> 32	
<211> 29	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 32	
ccgcaattgt tttttcccct cagtgtata	29
<210> 33	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 33	
ccgcaattgt acacccacac acgtcat	27
<210> 34	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 34	

ccgcaattgt atatagtccg cgca 24

<210> 35

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 35

ccgcaattga ctgaggggaa aaaatac 27

<210> 36

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 36

ccgcaattgg tcactactct tgagtcc 27

<210> 37

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 37

ccgcaattgc gcggactata tacactg 27

<210> 38

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 38

ccgcaattgg agtagagttt tctctca 27

<210> 39

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 39

ccgcaattgc ttcggactca agagtag 27

<210> 40	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 40	
ccgcaattga catggcgaac agacttc	27
<210> 41	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 41	
ccgcctccgc gttaacgatt aacc	24
<210> 42	
<211> 20	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 42	
agctttttaat taacatcatc	20
<210> 43	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 43	
ccgcaattgc gcaggtcgcg gcggagc	27
<210> 44	
<211> 26	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 44	
ccgcaattgc ctcgacttt gaccgt	26
<210> 45	
<211> 27	

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 45
 ccgcaattgg gcgggggtcaa agtcgca 27

 <210> 46
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 46
 ccgcaattgc cacgtcattt tccca 25

 <210> 47
 <211> 47
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 47
 cggcgggatc cttaatattac atcatcaata atataccgca cactttt 47

 <210> 48
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 48
 gcgtcgactc aaaacaggct ctcac 25

 <210> 49
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 49
 cgggatccgg ccgctgctgc agct 24

 <210> 50
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 50
 cggactagtc cgccgctcgg ccc 23

<210> 51
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 51
 cggactagtc ccgcacaggt ggagagt 27

<210> 52
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 52
 cggactagtc ccgcggtact ctccacc 27

<210> 53
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 53
 cggactagtg tgccctctgg accggac 27

<210> 54
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 54
 cggactagtc actgagggga aaaaataca 29

<210> 55
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer

<400> 55
cggactagtg tccgcgcagc gcccgaga 28

<210> 56
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 56
cggactagtc tctactccct tcggact 27

<210> 57
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 57
cggactagtc tctcagcgga acagaccc 28

<210> 58
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 58
cggactagtc tcggccccgc cccg 24

<210> 59
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 59
cggactagta aattcccgca caggtgg 27

<210> 60
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 60
cggactagtgt tactctccac ctgtgcg 27

<210> 61
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 61
cggactagta ttttgtgcc tctggac 27

<210> 62
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 62
cggactagtgt gggaaaaaat acaccaca 29

<210> 63
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 63
cggactagtt atatagtcg cgcagcgc 28

<210> 64
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 64
cggactagta ctcccttcgg actcaag 27

<210> 65
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 65
cggactagtt tttctctcag cggaacag 28

<210> 66	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 66	
cggactagta atttccgccg ctcg	24
<210> 67	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 67	
cggactagta caggtggaga gtaccgc	27
<210> 68	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 68	
cggactagta aaatcccgcg gtactct	27
<210> 69	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 69	
cggactagtt ctggaccgga ccttcgc	27
<210> 70	
<211> 29	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 70	
cggactagtt atatacactg aggggaaaa	29
<210> 71	

<211> 28	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 71	
cggtactagtgc cagcgcccgga gagtcact	28
<210> 72	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 72	
cggtactagta aaactctact cccttcg	27
<210> 73	
<211> 28	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 73	
cggtactagta gcggaacaga ccctcgac	28
<210> 74	
<211> 23	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 74	
cggtactagtc gctcggtcccc gcc	23
<210> 75	
<211> 26	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer	
<400> 75	
cggtactagtc acaggtggag agtacc	26
<210> 76	
<211> 27	

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 76
 cggactagtc ggtactctcc acctgtg 27

 <210> 77
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 77
 cggactagtc ctctggaccg gaccttc 27

 <210> 78
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 78
 cggactagtg ccgcggacgt gtggtgc 27

 <210> 79
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 79
 cggactagta cctgacgacg gtgacac 27

 <210> 80
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 80
 cggactagtc cacacacgtc atctcgg 27

 <210> 81
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 81
 cggactagtc tcagtgtata tagtcc 26

<210> 82
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 82
 cggactagtt gaggggaaaa aatacac 27

<210> 83
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 83
 cggactagtgc cgcagcgccc gagagtca 28

<210> 84
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 84
 cggactagtt actcccttcg gactcaa 27

<210> 85
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 85
 cggactagtt cagcggaaca gaccctcg 28

<210> 86
 <211> 560
 <212> DNA
 <213> Porcine Adenovirus 3

<400> 86

```

catcatcaat aatataaccgc acacttttat tgccccctttt gtggcgtggt gattggcgga 60
gaggggttggg ggcgggcgggc ggtgattggt ggagaggggt gtgacgtagc gtgggaacgt 120
gacgtcgcgt gggaaaatga cgtgtgatga cgtcccgtgg gaacgggtca aagtccaagg 180
ggaaggggtg gagccctggg gcggtcctcc gcggggcggg gccgagcggc ggaaattccc 240
gcacaggtgg agagtaccgc gggattttgt gccctctgga ccggaccttc gccctccggt 300
gtggcacttc cgcaccacac gtccgcggcc cggatttccc cacctgacga cggtgacacc 360
actcacctga gcggggtgtc cttcgcgctg agaggtccgc ggcggccgcc cgagatgacg 420
tgtgtgggtg tattttttcc cctcagtgtg tatagtcgcg gcagcgcccg agagtcacta 480
ctcttgagtc cgaaggaggt agagttttct ctcagcggaa cagaccctcg acatggcgaa 540
cagacttcac ctggactggg                                     560

```

<210> 87

<211> 234

<212> DNA

<213> Porcine Adenovirus 3

<400> 87

```

cgccccagaa gtcccgaggaa ttcccgccag ccggctccgc cgcgacctgc gactttgacc 60
cgccccctcg gactttgacc gttcccacgc caggtcattt tcccacgcga cgtcacgttc 120
ccacgctacg tcacaccctt ctccaccaat caccgcccgc cgcccccaac cctctccgcc 180
aatcaccacg ccacaaaagg ggcaataaaa gtgtgcggta tattattgat gatg      234

```

<210> 88

<211> 120

<212> DNA

<213> Porcine Adenovirus 3

<400> 88

```

gcggggtgtc cttcgcgctg agaggtccgc ggcggccgcc cgagatgacg tgtgtgggtg 60
tattttttcc cctcagtgtg tatagtcgcg gcagcgcccg agagtcacta ctcttgagtc 120

```

<210> 89

<211> 320

<212> DNA

<213> Porcine Adenovirus 3

<400> 89

```

gcggggcggg gccgagcggc ggaaattccc gcacaggtgg agagtaccgc gggattttgt 60
gccctctgga ccggaccttc gccctccggt gtggcacttc cgcaccacac gtccgcggcc 120
cggatttccc cacctgacga cggtgacacc actcacctga gcggggtgtc cttcgcgctg 180
agaggtccgc ggcggccgcc cgagatgacg tgtgtgggtg tattttttcc cctcagtgtg 240
tatagtcgcg gcagcgcccg agagtcacta ctcttgagtc cgaaggaggt agagttttct 300
ctcagcggaa cagaccctcg                                     320

```

<210> 90

<211> 30

<212> DNA

<213> Porcine Adenovirus 3

<400> 90

```

gccgagcggc ggaaattccc gcacaggtgg                                     30

```

<210> 91

<211> 14

<212> DNA

<213> Porcine Adenovirus 3

<400> 91	
gcgggaaattc ccgc	14
<210> 92	
<211> 51	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 92	
gcggcggaataa ttcccgacac ggtggagagt accgcgggat tttgtccct c	51
<210> 93	
<211> 13	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 93	
cgggattttg tgc	13
<210> 94	
<211> 17	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 94	
gcggcggaataa ttccgc	17
<210> 95	
<211> 18	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 95	
gcgggatttt gtgccctc	18
<210> 96	
<211> 19	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 96	
cccggtattc cccacctga	19
<210> 97	
<211> 11	
<212> DNA	
<213> Porcine Adenovirus 3	
<400> 97	
cggtattccc c	11
<210> 98	
<211> 32	
<212> DNA	
<213> Porcine Adenovirus 3	

<400> 98
ggtgtattttt ttcccctcag tgtatatagt cc 32

<210> 99
<211> 14
<212> DNA
<213> Porcine Adenovirus 3

<400> 99
agagtttttct ctca 14

<210> 100
<211> 14
<212> DNA

<213> Porcine Adenovirus 3

<400> 100
gtgtattttt tccc 14

<210> 101
<211> 13
<212> DNA
<213> Porcine Adenovirus 3

<400> 101
gtgtatatag tcc 13

<210> 102
<211> 10
<212> DNA
<213> Porcine Adenovirus 3

<400> 102
gagtttttctc